

Notice of Allowability	Application No.	Applicant(s)	
	10/657,401	SAIDMAN ET AL.	
	Examiner	Art Unit	
	Frederick C. Nicolas	3754	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 2/13/2006.
2. ☒ The allowed claim(s) is/are 1, 2, 4, 8-10, 13-25 and 27-59.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

Allowable Subject Matter

1. Claims 1-2,4,8-10,13-25,27-59 are allowed.
2. The following is an examiner's statement of reasons for allowance: the prior art fails to disclose or render obvious a method of optimizing a cycle time of a liquid dispensing module in combination with the other claimed limitations of claim 1:

"selecting the initial air volume of the air cavity and the effective valve flow coefficient of the solenoid valve such that a cycle time of the liquid dispensing module is less than or equal to 9 milliseconds".

The prior art fails to disclose or render obvious a liquid dispensing module in combination with the other claimed limitations of claim 10:

"a nozzle removably mounted within said nozzle-receiving space of the dispenser body in fluid communication with said discharge outlet, said nozzle having a wedge-shaped side portion that is engaged with said wedge-shaped recess in said nozzle-receiving space when said set screw is advanced in said threaded passageway to apply a force against said nozzle".

The prior art fails to disclose or render obvious a liquid dispensing module in combination with the other claimed limitations of claims 13 and 36:

"a second valve stem segment including a second valve plug, said second valve stem segment operatively coupled for movement with said first valve stem segment, said first and said second valve stem segments being movable between a first position in which said first valve plug contacts said first valve seat to stop the flow of the liquid from said liquid inlet to said recirculation outlet and

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said second valve plug is out of contact with said valve seat to permit the flow of the liquid from said liquid inlet to said discharge outlet and a second position in which said first valve plug is out of contact with said first valve seat to permit the flow of the liquid from said liquid inlet to said recirculation outlet and said second valve plug contacts said second valve seat to halt the flow of the liquid from said liquid inlet to said discharge outlet”.

Further, the prior art fails to disclose or render obvious a method of intermittently dispensing a liquid from a liquid dispensing module in combination with the other claimed limitations of claim 32:

“moving the flow-control mechanism with the pneumatic actuator from the open position to the closed position in a second portion of the cycle time to stop dispensing the liquid from the discharge outlet, wherein the cycle time is less than or equal to 9 milliseconds”.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Conclusion

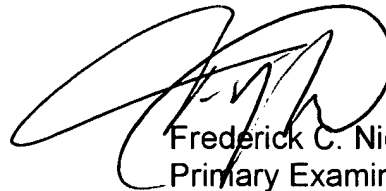
3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frederick C. Nicolas whose telephone number is (571)-272-4931. The examiner can normally be reached on Monday - Friday from 9:00 AM to 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Y. Mar, can be reached on 571-272-4906. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FN
February 24, 2006

 2/24/06
Frederick C. Nicolas
Primary Examiner
Art Unit 3754